CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/WNo.01/BMS/CSR.2/75a/CEMENT/2014-15

Date: 06.02.2015

TEST REPORT ON CEMENT

*CUSTOMER	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
*AGENCY	:	Mr. B.M. Srinivas, No.17, Kuruvarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
*NAME OF THE WORK	:	Reconstruction of Damaged and Flood Proning Culverts and Drains in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/YSD/AE-1/2014-15 Dated: 04.02.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	04.02.2015
PERIOD OF TESTING	:	04.02.2015 to 06.02.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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T-2377

Job No: CTCE/BBMP/W No01/BMS/CSR2/756/SAND-Gradation/2014-15 : 06.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

* Agency : Mr. B.M. Srinivas,
No.17, Kunvarahalli Main Road, Mahalakshmipuram (Post), Bangalore.

* Name of Work : Reconstruction of Damaged and Flood Prone Culverts and Drains in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-1/2014-15 Dated: 04.02.2015

Technical Reference : IS : 2386 Part I - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 04.02.2015

Date of Testing : 06.02.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.46	90-100	90-100	90-100	95-100
2.36	83.88	60-95	75-100	85-100	95-100
1.18	57.41	30-70	55-90	75-100	90-100
600 Micron	26.76	15-34	35-59	60-79	80-100
300 Micron	11.34	5-20	8-30	12-40	15-50
150 Micron	2.99	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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T-2377

Job No.: CTCE/BBMP/WNo.01/BMS/CSR2/756a/AGG/GR/2014-15 : 06.02.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Mr. B.M. Srinivas, No.17, Kuruvarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
* Name of Work	: Reconstruction of Damaged and Flood Proning Culverts and Drains in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-1/2014-15 Dated: 04.02.2015
Technical Reference	: IS : 2386 Part I-1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 04.02.2015
Date of Testing	: 06.02.2015

Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.22	95-100	85-100
20	50.96	30-70	0-20
10	24.02	10-35	0-5
4.75	2.50	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No: CTCE/BBMP/W No.01/BMS/CSR2/756a/AGG/GR/2014-15 : 06.02.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Mr. B.M. Srinivas, No.17, Kuruvanahalli Main Road, Mahalakshmipuram (Post), Bangalore.
* Name of Work	: Reconstruction of Damaged and Flood Proving Culverts and Drains in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-1/2014-15 Dated: 04.02.2015
Technical Reference	: IS : 2386 Part I -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 04.02.2015
Date of Testing	: 06.02.2015

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.08	95-100	85-100
10	37.00	25-55	0-20
4.75	6.54	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Lab No: CTCE/BBMP/W No:01/RMS/STEEL/2014-15 07.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Agency	:	Mr. B.M. Srinivas, No.17, Kuravarahalli Main Road, Mahalakshmipuram (Post), Bangalore.
Name of the work	:	Reconstruction of Damaged and Flood Proning Culverts and Drains at Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore
Reference	:	AEE/BBMP/YSD/AP-1/2014-15 Dated: 04.02.2015
Date of Test	:	07.02.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	552	13.25	O.K	O.K

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Job No: CTCE/BBMP/W No.01/BMS/STEEL/2014-15 07.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Mr. B.M. Srinivas, No.17, Kogwarahalli Main Road, Mahalakshmipuram Post, Bangalore.
Name of the work	:	Reconstruction of Damaged and Flood Proning Culverts and Drains in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-1/2014-15 Dated:04.02.2015
Date of Test	:	07.02.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per meter (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.50	O.K	O.K

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Job No.: CTCE/BBMP/W.No.01/BMS/CSR.2/756a/CUBE/2014-15 20.02.2015

TEST REPORT ON CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Mr. B.M. Srinivas, No.17, Kuravarahalli Main Road, Mahalakshmiporam (Post), Bangalore.
* Name of the work	: Reconstruction of Damaged and Flood Proning Culverts and Drains in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/YSD/AE-1/2014-15 Dated: 04.02.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day
Sample Received on	: 13.02.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.02.2015	20.02.2015	8.258	339.4	15.08
2	13.02.2015	20.02.2015	8.360	352.3	15.66
3	13.02.2015	20.02.2015	8.147	329.5	14.64

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